Index to Volume XVI and Volume XVII

THE SCIENCE TEACHER 1949 and 1950

Authors' Index

Adragna, Michael. *Mendelian Inheritance.* XVII; 179.
Albertson, E. Joe. *A Jet Model That Works.* XVII; 225.
Anderson, George W. *A Study of Red Lead.* XVII; 143.
Anderson, George W. *Fast Red.* XVII; 179.
Anderson, Kenneth E. *A Survey of State Syllabi for Science.* XVI; 19.
Angell, George W. *Next Steps in Evaluation.* XVII; 209.
Beatty, John Y. *Science Principles Illustrated by the Work of Luther Burbank.* XVI; 15.
Blough, Glenn O. *Using Nature Literature in School Programs.* XVI; 67.
Bobbitt, Blanche. *Science in UNESCO.* XVII; 189.
Bonsted, Charles D. *Forestry, Profession for Scientists.* XVI; 176.
Boyer, Myron F. *Audio-Visual Aids for Ninth-Grade Science.* XVI; 81.
Brandwein, Paul. *How One Teacher Does It.* XVI; 33.
Brandwein, Paul. *How One Teacher Does It.* XVI; 132.
Bruce, Guy V. *Small Fry Can Show That Air Has Weight.* XVII; 130.
Casey, Michael T. *To Show That Seeds Will Not Germinate in an Oxygen-Free Atmosphere.* XVII; 123.
Crake, Helena. *Eyes and Ears for Elementary Science.* XVII; 218.
Curtis, Francis D. *What Problems Are Involved in the Inservice Training of Teachers.* XVI; 65.
Curtis, Francis D. *Individual Laboratory Work Must Be Retained.* XVII; 63.
Curtis, Francis D. *A Plea for Inductive Teaching.* XVII; 222.
Danielson, E. O. *Emphases for Intergroup Education in Secondary School Science.* XVI; 13.
Davis, James B. *Do You Know?* XVII; 229.
Dugan, Ruth Newman. *Biology Students Help Rid Their City of Rats.* XVII; 175.
Edmiston, V. V. *Science Curriculum Development in Japan.* XVI; 69.
Eisenhart, M. H. *Science Awards and Scholarships.* XVII; 24.
Fonda, Gorton R. *Joseph Priestley.* XVII; 131.
Foster, Laurence S. *Hydrogen Chloride and Hydrochloric Acid.* XVII; 73.
Frazier, Alexander. *Emphases for Intergroup Education in Secondary School Science.* XVI; 13.
Fry, W. J. *Biological Applications of Supersonics.* XVII; 78.
Hainfeld, Harold. *Making Slides.* XVII; 226.
Hall, Carrol C. *"Learning" Tours for Chemistry Students.* XVII; 32.
Harlow, James G. *Tired of Selling Science?* XVI; 85.
Hubler, Clark. *Start an Elementary Science Program—and Watch It Grow!* XVII; 167.
Hubler, Reta A. *Start an Elementary Science Program—and Watch It Grow!* XVII; 167.
Johnson, Keith C. *Third Annual Junior Scientists' Assembly.* XVI; 28.
Johnson, Philip G. *The Meanings of Science.* XVII; 161
Jones, Norman R. D. *A Science Fair—Its Organization and Operation,* Part I. XVI; 26.
Jones, Norman R. D. *A Science Fair—Its Organization and Operation,* Part II. XVI; 76.
Justman, Dorothy E. *Science Can Be Fun.* XVII; 75.
Kedge, Bernard G. *Sensitive Differential Air-Thermometer.* XVII; 123.
Krenerick, H. Clyde. *Accelerated Motion.* XVII; 129.
Lapp, Walter S. *Which Test Tubes Shall We Buy?* XVII; 117.
Lazarus, Arthur. *How One Teacher Does It.* XVII; 79.
Lefler, Ralph W. *Archimedes' Principle.* XVII; 226.
McMenamin, Joseph P. *A Change for High School Botany.* XVI; 84.
Mallinson, George G. *A Survey of State Syllabi for Science.* XVI; 19.
Mallinson, George G. *Errors and Misconceptions in Films for Science.* XVI; 124.
Mallinson, George G. *Narration in Films for Science.* XVII; 220.
Marshall, Emily. *Emphases for Intergroup Education in Secondary School Science.* XVI; 13.
Meister, Morris. *The Place of Science in a Free Society: Implications for the Secondary Level.* XVII; 113.
Miller, W. E. *Experiments in Illumination,* Part I. XVI; 16.
Miller, W. E. *Experiments in Illumination,* Part II. XVI; 71.
Miller, W. E. *Experiments in Illumination,* Part III. XVI; 121.
Newman, Morton L. *Persistence of Vision.* XVII; 227.
Obermayer, Arthur S. *Ammonium Oxalate as a Catalytic Oxidizer.* XVI; 21.
Obourn, Ellsworth S. *Making the Most of Experimental Exercises.* XVII; 170.
Patterson, Margaret E. *Science Clubs Expand Their Activities.* XVI; 129.
Patterson, Margaret E. *Opportunity for Nation's Junior Scientists.* XVII; 124.
Pella, Milton O. *Audio-Visual Aids in Teaching Science.* XVI; 24.
Raskin, Abraham. *The Place of Science in the Free Society: Implications for the Elementary Level.* XVII; 113.
Rasor, William W. *Next Steps in Evaluation.* XVII; 209.
Reuning, Ernest G. *Travel in Outer Space.* XVII; 185.
Richardson, John S. *Experimental Science—Brief History and Present Outlook.* XVII; 164.
Riley, Clyde E. *Films for Physics.* XVI; 178.
Schulze, B. E. *Use of Magnesium Sulfate Crystals for Determining Formula of Hydrate.* XVI; 120.
Shambo, Mildred. *Audio-Visual Teaching Aids in a Science Curriculum.* XVII; 22.
Shanor, Leland. *Not Only Fleas To Bite 'Em,* Part I. XVI; 115.
Shanor, Leland. *Not Only Fleas To Bite 'Em,* Part II. XVI; 170.

Index to Volume XVI and Volume XVII

THE SCIENCE TEACHER 1949 and 1950

Authors' Index

Adragna, Michael. *Mendelian Inheritance.* XVII; 179.
Albertson, E. Joe. *A Jet Model That Works.* XVII; 225.
Anderson, George W. *A Study of Red Lead.* XVII; 143.
Anderson, George W. *Fast Red.* XVII; 179.
Anderson, Kenneth E. *A Survey of State Syllabi for Science.* XVI; 19.
Angell, George W. *Next Steps in Evaluation.* XVII; 209.
Beatty, John Y. *Science Principles Illustrated by the Work of Luther Burbank.* XVI; 15.
Blough, Glenn O. *Using Nature Literature in School Programs.* XVI; 67.
Bobbitt, Blanche. *Science in UNESCO.* XVII; 189.
Bonsted, Charles D. *Forestry, Profession for Scientists.* XVI; 176.
Boyer, Myron F. *Audio-Visual Aids for Ninth-Grade Science.* XVI; 81.
Brandwein, Paul. *How One Teacher Does It.* XVI; 33.
Brandwein, Paul. *How One Teacher Does It.* XVI; 132.
Bruce, Guy V. *Small Fry Can Show That Air Has Weight.* XVII; 130.
Casey, Michael T. *To Show That Seeds Will Not Germinate in an Oxygen-Free Atmosphere.* XVII; 123.
Crake, Helena. *Eyes and Ears for Elementary Science.* XVII; 218.
Curtis, Francis D. *What Problems Are Involved in the Inservice Training of Teachers.* XVI; 65.
Curtis, Francis D. *Individual Laboratory Work Must Be Retained.* XVII; 63.
Curtis, Francis D. *A Plea for Inductive Teaching.* XVII; 222.
Danielson, E. O. *Emphases for Intergroup Education in Secondary School Science.* XVI; 13.
Davis, James B. *Do You Know?* XVII; 229.
Dugan, Ruth Newman. *Biology Students Help Rid Their City of Rats.* XVII; 175.
Edmiston, V. V. *Science Curriculum Development in Japan.* XVI; 69.
Eisenhart, M. H. *Science Awards and Scholarships.* XVII; 24.
Fonda, Gorton R. *Joseph Priestley.* XVII; 131.
Foster, Laurence S. *Hydrogen Chloride and Hydrochloric Acid.* XVII; 73.
Frazier, Alexander. *Emphases for Intergroup Education in Secondary School Science.* XVI; 13.
Fry, W. J. *Biological Applications of Supersonics.* XVII; 78.
Hainfeld, Harold. *Making Slides.* XVII; 226.
Hall, Carrol C. *"Learning" Tours for Chemistry Students.* XVII; 32.
Harlow, James G. *Tired of Selling Science?* XVI; 85.
Hubler, Clark. *Start an Elementary Science Program—and Watch It Grow!* XVII; 167.
Hubler, Reta A. *Start an Elementary Science Program—and Watch It Grow!* XVII; 167.
Johnson, Keith C. *Third Annual Junior Scientists' Assembly.* XVI; 28.
Johnson, Philip G. *The Meanings of Science.* XVII; 161
Jones, Norman R. D. *A Science Fair—Its Organization and Operation,* Part I. XVI; 26.
Jones, Norman R. D. *A Science Fair—Its Organization and Operation,* Part II. XVI; 76.
Justman, Dorothy E. *Science Can Be Fun.* XVII; 75.
Kedge, Bernard G. *Sensitive Differential Air-Thermometer.* XVII; 123.
Krenerick, H. Clyde. *Accelerated Motion.* XVII; 129.
Lapp, Walter S. *Which Test Tubes Shall We Buy?* XVII; 117.
Lazarus, Arthur. *How One Teacher Does It.* XVII; 79.
Lefler, Ralph W. *Archimedes' Principle.* XVII; 226.
McMenamin, Joseph P. *A Change for High School Botany.* XVI; 84.
Mallinson, George G. *A Survey of State Syllabi for Science.* XVI; 19.
Mallinson, George G. *Errors and Misconceptions in Films for Science.* XVI; 124.
Mallinson, George G. *Narration in Films for Science.* XVII; 220.
Marshall, Emily. *Emphases for Intergroup Education in Secondary School Science.* XVI; 13.
Meister, Morris. *The Place of Science in a Free Society: Implications for the Secondary Level.* XVII; 113.
Miller, W. E. *Experiments in Illumination,* Part I. XVI; 16.
Miller, W. E. *Experiments in Illumination,* Part II. XVI; 71.
Miller, W. E. *Experiments in Illumination,* Part III. XVI; 121.
Newman, Morton L. *Persistence of Vision.* XVII; 227.
Obermayer, Arthur S. *Ammonium Oxalate as a Catalytic Oxidizer.* XVI; 21.
Obourn, Ellsworth S. *Making the Most of Experimental Exercises.* XVII; 170.
Patterson, Margaret E. *Science Clubs Expand Their Activities.* XVI; 129.
Patterson, Margaret E. *Opportunity for Nation's Junior Scientists.* XVII; 124.
Pella, Milton O. *Audio-Visual Aids in Teaching Science.* XVI; 24.
Raskin, Abraham. *The Place of Science in the Free Society: Implications for the Elementary Level.* XVII; 113.
Rasor, William W. *Next Steps in Evaluation.* XVII; 209.
Reuning, Ernest G. *Travel in Outer Space.* XVII; 185.
Richardson, John S. *Experimental Science—Brief History and Present Outlook.* XVII; 164.
Riley, Clyde E. *Films for Physics.* XVI; 178.
Schulze, B. E. *Use of Magnesium Sulfate Crystals for Determining Formula of Hydrate.* XVI; 120.
Shambo, Mildred. *Audio-Visual Teaching Aids in a Science Curriculum.* XVII; 22.
Shanor, Leland. *Not Only Fleas To Bite 'Em,* Part I. XVI; 115.
Shanor, Leland. *Not Only Fleas To Bite 'Em,* Part II. XVI; 170.

Shillito, J. F. *Wet and Dry Bulb Temperatures.* XVII; 123.
Singerman, Joseph. *Danger in Flourescent Lamps.* XVI; 74.
Singerman, Joseph. *Resources for Civilization's Future.* XVI; 127.
Smyth, Henry D. *The Place of Science in a Free Society.* XVII; 109.
Sollberger, Dwight E. *Aids to Elementary Science Teachers.* XVI; 32.
Sollberger, Dwight E. *Cages for Small Mammals.* XVII; 227.
Stern, Bernhard, J. *The Interrelation of Human Heredity and Environment.* XVII; 70.
Stern, Curt. *Reply to Bernhard J. Stern.* XVII; 202.
Stewart, Wilson N. *Procedures for Staining Plant Chromosomes.* XVII; 13.
Stollberg, Robert. *Suggestions for Teaching Electronics,* Part I. XVI; 163.
Stollberg, Robert. *Suggestions for Teaching Electronics,* Part II. XVII; 20.
Stollberg, Robert. *Suggestions for Teaching Electronics,* Part III. XVII; 68.
Stone, Charles H. *An Experiment in Education.* XVI; 73.
Stone, Charles H. *Vitalizing Chemistry Teaching.* XVI; 173.
Stone, Charles H. *A Study of Red Lead.* XVII; 143.
Stone, Charles H. *Fast Red.* XVII; 179.
Thurber, Walter A. *A Science Teacher Looks at School Camping.* XVII; 233.
Vars, Gordon F. *Getting the Most From Business-Sponsored Pamphlets.* XVII; 228.
Watson, Fletcher G. *The Place of Science in a Free Society: Implications for the College Level.* XVII; 113.
Watson, Fletcher G. *A Tin Can Planetarium.* XVII; 180.
Weaver, Elbert C. *Names for Chemical Elements.* XVI; 184.
Weaver, Elbert C. *Hydrogen Chloride and Hydrochloric Acid.* XVII; 73.
Webb, Hanor A. *Chats With Science Teachers, IV: Science and Imagination.* XVI; 18.
Webb, Hanor A. *Chats With Science Teachers, VI: The Classroom Diary.* XVI; 123.
Webb, Hanor A. *Chats With Science Teachers, VII: The "Objectives Committee."* XVI; 175.
Webb, Hanor A. *Chats With Science Teachers, VIII: Your Students Are Poets!* XVII; 26.
Webb, Hanor A. *Chats With Science Teachers, IX: Speaking of Speeches.* XVII; 127.
Wells, Harrington. *Science Teachers Join the Fight Against Cancer.* XVII; 121.
Williams, Harry H. *Moving to Semimicro in High School Chemistry.* XVII; 172.
Wilson, Horace W. *Modern Cold Storage Guards the Nation's Food Supply.* XVII; 230.
Woodburn, John. *Constructing Machine Scorable Examinations in the Natural Sciences.* XVII; 213.
Yothers, Lee R. *A National Science Day, or Week?* XVI; 80.
Zim, Herbert S. *Fourth Annual Junior Scientists' Assembly.* XVII; 28.
Zim, Herbert S. *Science Learning Through Books—In the Elementary Field.* XVII; 114.

Topical Index

History, Philosophy, Goals, and Objectives

"Objectives Committee"; Chats With Science Teachers, VII. *Hanor A. Webb.* XVI; 175.
Meanings of Science. *Philip G. Johnson.* XVII; 161.
Place of Science in a Free Society. *Henry D. Smyth.* XVII; 109.
Place of Science in a Free Society: Implications for the College Level. *Fletcher G. Watson.* XVII; 113.
Place of Science in a Free Society: Implications for the Elementary Level. *Abraham Raskin.* XVII; 113.
Place of Science in a Free Society: Implications for the Secondary Level. *Morris Meister.* XVII; 113.

Multisensory Methods and Materials

Audio-Visual Aids for Ninth-Grade Science. *Myron F. Boyer.* XVI; 81.
Audio-Visual Aids in Teaching Science. *Milton O. Pella.* XVI; 24.
Audio-Visual Teaching Aids in a Science Curriculum. *Mildred Shambo.* XVII; 22.
Errors and Misconceptions in Films for Science. *George G. Mallinson.* XVI; 124.
Eyes and Ears for Elementary Science. *Helena Crake.* XVII; 218.
Films for Physics. *Clyde E. Riley.* XVI; 178.
Naration in Films for Science. *George G. Mallinson.* XVII; 220.
Science Can Be Fun. *Dorothy E. Justman.* XVII; 75.

Education of Science Teachers

What Problems Are Involved in the Inservice Training of Teachers? *Francis D. Curtis.* XVI; 65.

Investigations, Research, and Fact-Finding Studies

Errors and Misconceptions in Films for Science. *George G. Mallinson.* XVI; 124.
Experimental Science. *John S. Richardson.* XVII; 164.
Narration in Films for Science. *George G. Mallinson.* XVII; 220.
Survey of State Syllabi for Science. *George G. Mallinson, Kenneth E. Anderson.* XVI; 19.
Which Test Tubes Shall We Buy? *Walter S. Lapp.* XVII; 117.

Selection and Organization of Course Content

Change for High School Botany. *Joseph P. McMenamin.* XVI; 84.
Science Curriculum Development in Japan. *V. V. Edmiston.* XVI; 69.

Science in the Elementary School

Aids to Elementary Science Teachers. *Dwight E. Sollberger.* XVI; 32.
Eyes and Ears for Elementary Science. *Helena Crake.* XVII; 218.
Science Learning Through Books. *Herbert S. Zim.* XVII; 114.
Small Fry Can Show That Air Has Weight. *Guy V. Bruce.* XVII; 130.
Start an Elementary Science Program—and Watch It Grow! *Clark and Reta A. Hubler.* XVII; 167.
Tin Can Planetarium. *Fletcher G. Watson.* XVII; 180.
Using Nature Literature in School Programs. *Glenn O. Blough.* XVI; 67.

Experiments, Demonstrations, and Pupil Projects and Activities

Accelerated Motion. *H. Clyde Krenerick.* XVII; 129.
Ammonium Oxalate as a Catalytic Oxidizer. *Arthur S. Obermayer.* XVI; 21.
Archimedes' Principle. *Ralph W. Lefler.* XVII; 226.
Biology Students Help Rid Their City of Rats. *Ruth Newman Dugan.* XVII; 175.
Cages for Small Mammals. *Dwight E. Sollberger.* XVII; 227.
Demonstration Ideas From Overseas. *School Science Review.* XVII; 123.
Experiment in Education. *Charles H. Stone.* XVI; 73.
Experiments in Illumination, I. *W. E. Miller,* XVI; 16.
Experiments in Illumination, II. *W. E. Miller.* XVI; 71.
Experiments in Illumination, III. *W. E. Miller.* XVI; 121.
Fast Red (Two Classroom Demonstrations). *Charles H. Stone, George W. Anderson.* XVII; 179.
How One Teacher Does It. *Paul Brandwein.* XVI; 33.
How One Teacher Does It. *Paul Brandwein.* XVI; 132.
How One Teacher Does It. *Arthur Lazarus.* XVII: 79.
Jet Model That Works. *E. Joe Albertson.* XVII; 225.
Making Slides. *Harold Hainfeld.* XVII; 226.
Mendelian Inheritance (Two Classroom Demonstrations). *Michael Adragna.* XVII; 179.
Persistence of Vision. *Morton L. Newman.* XVII; 227.
Procedures for Staining Plant Chromosomes. *Wilson N. Stewart.* XVII; 13.
Sensitive Differential Air-Thermometer. *Bernard G. Kedge.* XVII; 123.
Small Fry Can Show That Air Has Weight. *Guy V. Bruce.* XVII; 130.
Study of Red Lead. *Charles H. Stone, George W. Anderson.* XVII; 143.
Suggestions for Teaching Electronics, I. *Robert Stollberg.* XVI; 163.
Suggestions for Teaching Electronics, II. *Robert Stollberg.* XVII; 20.
Suggestions for Teaching Electronics, III. *Robert Stollberg.* XVII; 68.
Tin Can Planetarium. *Fletcher G. Watson.* XVII; 180.
To Show That Seeds Will Not Germinate in a Oxygen-Free Atmosphere. *Michael T. Casey.* XVII; 123.
Use of Magnesium Sulfate Crystals for Determining Formula of Hydrate. *B. E. Schulze.* XVI; 120.
Vitalizing Chemistry Teaching. *Charles H. Stone.* XVI; 173.
Wet and Dry Bulb Temperatures. *J. F. Shillito.* XVII; 123.

Science Clubs, Fairs, Exhibits; Science Talent Searches

Fourth Annual Junior Scientists' Assembly. *Herbert S. Zim.* XVII; 28.
National Science Day, or Week? *Lee R. Yothers.* XVI; 80.
Opportunity for Nation's Junior Scientists. *Margaret E. Patterson.* XVII; 124.
Science Awards and Scholarships. *M. H. Eisenhart.* XVII; 24.
Science Clubs Expand Their Activities. *Margaret E. Patterson.* XVI; 129.
Science Fair—Its Organization and Operation, I. *Norman R. D. Jones.* XVI; 26.
Science Fair—Its Organization and Operation, II. *Norman R. D. Jones.* XVI; 76.
Third Annual Junior Scientists' Assembly. *Keith C. Johnson.* XVI; 28.

Instructional Suggestions and Methods

Classroom Diary; Chats With Science Teachers, VI. *Hanor A. Webb.* XVI; 123.
Do You Know? *James B. Davis.* XVII; 229.
Emphases for Intergroup Education in Secondary School Science. *E. O. Danielson, Emily Marshall, Alexander Frazier.* XVI; 13.
Getting the Most From Business-Sponsored Pamphlets. *Gordon F. Vars.* XVII; 228.
Individual Laboratory Work Must Be Retained. *Francis D. Curtis.* XVII; 63.
"Learning" Tours for Chemistry Students. *Carrol C. Hall.* XVII; 32.
Making the Most of Experimental Exercises. *Ellsworth S. Obourn.* XVII; 170.
Moving to Semimicro in High School Chemistry. *Harry H. Williams.* XVII; 172.
Plea for Inductive Teaching. *Francis D. Curtis.* XVII; 222.
Science and Imagination; Chats With Science Teachers, IV. *Hanor A. Webb.* XVI; 18.
Science Teacher Looks at School Camping. *Walter A. Thurber.* XVII; 233.
Science Teachers Join the Fight Against Cancer. *Harrington Wells.* XVII; 121.
Tired of Selling Science? *James G. Harlow.* XVI; 85.
Your Students Are Poets! Chats With Science Teachers, VIII. *Hanor A. Webb.* XVII; 26.

Science Information for Teachers

Biological Applications of Supersonics. *W. J. Fry.* XVII; 78.
Danger in Flourescent Lamps. *Joseph Singerman.* XVI; 74.
Forestry, Profession for Scientists. *Charles D. Bonsted.* XVI; 176.
Hydrogen Chloride and Hydrochloric Acid. *Elbert C. Weaver, Laurence S. Foster.* XVII; 73.
Interrelation of Human Heredity and Environment. *Bernhard J. Stern.* XVII; 70.
Joseph Priestley. *Gorton R. Fonda.* XVII; 131.
Modern Cold Storage Guards the Nation's Food Supply. *Horace W. Wilson.* XVII; 230.
Names for Chemical Elements. *Elbert C. Weaver,* XVI; 184.
Not Only Fleas To Bite 'Em! I. *Leland Shanor.* XVI; 115.
Not Only Fleas To Bite 'Em! II. *Leland Shanor.* XVI; 170.
President Truman Appoints National Science Foundation Board. XVII; 217.
Reply to Bernhard J. Stern. *Curt Stern.* XVII; 202.
Resources for Civilization's Future. *Joseph Singerman.* XVI; 127.
Science In UNESCO. *Blanche Bobbitt.* XVII; 189.
Science Principles Illustrated by the Work of Luther Burbank. *John Y. Beatty.* XVI; 15.
Speaking of Speeches; Chats With Science Teachers, IX. *Hanor A. Webb.* XVII; 127.
Travel in Outer Space. *Ernest G. Reuning.* XVII; 185.

Tests and the Evaluation of Outcomes

Constructing Machine Scorable Examinations in the Natural Sciences. *John Woodburn.* XVII; 213.
Next Steps in Evaluation. *George W. Angell, William W. Rasor.* XVII; 209.